smart optics

Vinyl UXD

HARDWARE

- State-of-the-art 3D sensor unit
- UX module for gesture control and assistant projections
- Enlarged articulator system plate
- AI-controlled Z-axis
- Rapid motor control
- Housing made of high-quality materials

FEATURES

- HR and LR mode
- Selective camera mode
- Articulator scan
- Autoarticulation
- Twin Tray model scan
- Impression scan
- Triple Tray® impression scan
- Baltic Denture System®
- secondDie
- multiDie/multiDie+
- Visual Z-axis control
- Automatic cutting plane
- Additional scan
- Correction scan
- Texture scan monochrome
- Texture scan color
- Universal project
- multiCase project
- Orthodontic project
- Screen design: Dark Mode or Light Mode

INNOVATIVE TECHNOLOGY FOR THE MODERN DENTAL LAB

An additional member was added to the Vinyl series in 2022, the Vinyl UXD. Two high-resolution cameras and an advanced 3D sensor contribute to optimal data acquisition. The user has the option to choose between four modes, which allows the number of cameras as well as their resolution to be defined. This offers the great advantage of creating a high-resolution data set with full scan coverage or a reduced data set to save time, depending on what is required.

NEW KIND OF USER EXPERIENCE: AI SUPPORT

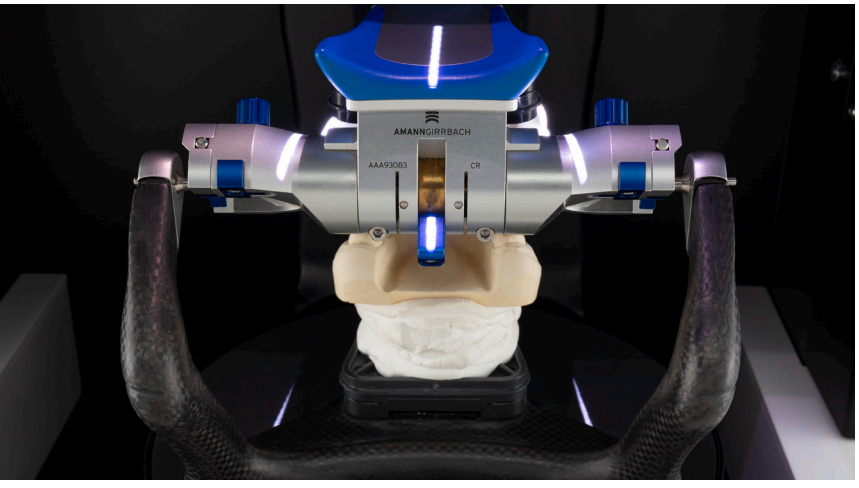
The UX module, consisting of two additional cameras and a projector, provides a new level of user experience. To select a workflow element or to start the scan, icons are projected onto the system plate and can be activated by hand gestures, almost autonomously from the PC.
The user can freely determine the scanning sequence as accustomed: upper jaw, lower jaw, articulator or other objects can be inserted depending on the selection. By monitoring the interior space, the Vinyl UXD employs AI-controlled Z-axis positioning to automatically align objects in height, thus guaranteeing the best possible scanning results.

THE VINYL UXD – A SCANNER IN A CLASS OF ITS OWN

ASSISTANCE DIRECTLY AT THE SCAN OBJECT: THE UX MODULE

Stumps to be exposed with secondDie and singleDie, are illuminated by the projector on the model inside the device. The model and object holder can therefore remain in the scanner, eliminating the time-consuming process of checking which teeth need to be removed. In the 2D scan, the illuminations display the correct color indication of the reconstruction types from exocad DentalCAD®.
For other work processes, assistances are also projected onto the system or universal plate. The incorrect insertion of articulators or impressions can thus be ruled out.

All these features enormously facilitate work, as potential sources of mistakes are minimized.



DEVICE INFORMATION

Cameras	4
Camera pixels	2 × 3.2 MP 2 × 1.0 MP
Projectors	3
Accuracy	4 µm (acc. ISO 12836)
Light source	Blue-light LED
Measurement	Stripe light triangulation
Measuring field	Camera 1: 80 × 60 × 82 mm Camera 2: 88 × 63 × 82 mm
Size (W x H x D)	455 × 430 × 435 mm
Weight	25 kg
Connections	1 × USB 3.0 1 × Power
Power supply	100 - 240 VAC, 50/60 Hz
Warranty	36 months

SCOPE OF DELIVERY

- Vinyl UXD
- Mains cable
- USB cable
- Accessory case
  - 3D calibration model
  - Object holder
  - Universal plate
  - multiDie adapter
  - Triple Tray® impression holder
  - 4 teeth bar (Twin Tray)
  - Adhesive pads
  - Data carrier with dental Scan, calibration data

MEASUREMENT TIME

Complete jaw	1 HR	2 HR
Scanning	12 sec	12 sec
Matching	10 sec	12 sec
Total	22 sec	24 sec

Single tooth	1 HR	2 HR
Scanning	25 sec	26 sec
Matching	6 sec	14 sec
Total	31 sec	40 sec

3-unit bridge	1 HR	2 HR
Scanning	40 sec	45 sec
Matching	15 sec	31 sec
Total	55 sec	76 sec

#smartoptics #pureScanning #MadeInGermany

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